

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003-0701 P	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/EP2004/007966	International filing date (day/month/year) 16.07.2004	Priority date (day/month/year) 18.07.2003
International Patent Classification (IPC) or national classification and IPC G06F1/00		
Applicant OCE PRINTING SYSTEMS GMBH		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>8</u> sheets, as follows: <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (sent to the International Bureau only) a total of _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

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International application No.

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Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language _____ which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1, 2, 5-16 as originally filed/furnished
- pages* 3-4, 4a received by this Authority on 24.03.2005 with letter of 21.03.2005
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. _____ as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 1-23 received by this Authority on 24.03.2005 with letter of 21.03.2005
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets 1/5-5/5 as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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International application No.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-23</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-23</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-23</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

- 1 This report makes reference to the following document:

D1: US 2002/184495 A1 (TORII MIKIO ET AL)
5 December 2002 (2002-12-05)

- 2 The phrase "stored independently of the data" in claims 1 and 17 is unclear and leaves the reader uncertain as to the meaning of the technical feature in question. As a result, the subject matter of said claims is unclear (PCT Article 6).

Hereinafter, said phrase is interpreted in line with page 5, lines 28-32 of the description and with claim 3 to mean "stored in a volatile memory".

- 3 INDEPENDENT CLAIMS 1, 17

- 3.1 Document D1 is considered the prior art closest to the subject matter of claim 1 and discloses (the references between parentheses refer to that document):

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

a method for printing sensitive data, comprising the following steps:

- encoding at the workstation (host apparatus B) sensitive data to be printed ;
- transferring the sensitive data to be printed to a printing device;
- decoding the sensitive data to be printed ([0044]);
- converting the data to be printed into control signals (implicit) for actuating a printing unit (image forming section 70);
- printing the data onto a recording medium ([0087]).

3.2 The subject matter of claim 1 is novel (PCT Article 33(2)) and differs from the method known from D1 in that in claim 1 the encoded data is stored in a non-volatile memory between the encoding and the printing stages, the data being divided between a plurality of memory segments and the associations thereof being stored in a volatile memory.

3.3 The present invention can therefore be considered to address the problem of protecting the encoded data before it is printed.

3.4 This is achieved using the solution proposed in the application, in that an attacker requires access to both data carriers in order to be able to read the data. The data is protected from a physical attack, for example from the removal of

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the data carrier, in that the data is not accessible without the segment associations. In the event of a power failure, the association of the data is lost, thereby preventing access to the data. This solution has the additional advantage of using fewer volatile memories than solutions in which the data is stored in a volatile memory and is therefore also more cost-effective.

- 3.5 The combination of features contained in claim 1 is neither disclosed nor suggested by the available prior art.

The solution proposed in claim 1 therefore involves an inventive step (PCT Article 33(3)).

- 3.6 The same reasoning applies to independent claim 17. The subject matter of claim 17 is thus novel and involves an inventive step.

4 DEPENDENT CLAIMS 2-16, 18-23

- 4.1 Claims 2-16 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.

- 4.2 Claims 18-23 are dependent on claim 17 and therefore likewise meet the PCT requirements for novelty and inventive step.